

CLAIM AMENDMENTS

Claim Amendment Summary

Claims pending: Claims 1, 4, 17, 21-23, 26, 33, 34, 37-39, and 42.

Canceled or Withdrawn claims: 2, 3, 5-16, 18-20, 24, 25, 27-32, 35, 36, 40, 41, and 43.

Amended claims: none.

New claims: none.

Below are claims 1, 4, 17, 21-23, 26, 33, 34, 37-39, and 42, which were cancelled from the parent application, but are reintroduced into this application. To avoid confusion, the numbering of the claims from the parent application is maintained here.

Claims 2, 3, 5-16, 18-20, 24, 25, 27-32, 35, 36, 40, 41, and 43 are withdrawn here because they were allowed in the parent case. These claims are labeled “withdrawn but allowed in parent”.

If a claim was amended in the parent case, it will be labeled “previously amended.” If it is amended herein, it will be labeled “presently amended.”

1 **Claims:**

2
3 **1. (PREVIOUSLY AMENDED)** An audio watermarking system
4 comprising

5 a pattern generator configured to generate both a strong watermark and a
6 weak watermark; and

7 a watermark insertion unit configured to selectively insert either the strong
8 watermark or the weak watermark into segments of the audio signal, so that
9 resulting segments have either the strong or the weak watermark inserted therein,
10 but not both.

11
12 **2. (WITHDRAWN BUT ALLOWED IN PARENT)**

13
14 **3. (WITHDRAWN BUT ALLOWED IN PARENT)**

15
16 **4. (ORIGINAL)** An operating system comprising an audio
17 watermarking system as recited in claim 1.

18
19 **5. (WITHDRAWN BUT ALLOWED IN PARENT)**

20
21 **6. (WITHDRAWN BUT ALLOWED IN PARENT)**

22
23 **7. (WITHDRAWN BUT ALLOWED IN PARENT)**



421 West Riverside, Suite 500
Spokane, WA 99201
P: 509.324.9256
F: 509.323.8979
www.leehayes.com

1 **8. (WITHDRAWN BUT ALLOWED IN PARENT)**

2
3 **9. (WITHDRAWN BUT ALLOWED IN PARENT)**

4
5 **10. (WITHDRAWN BUT ALLOWED IN PARENT)**

6
7 **11. (WITHDRAWN BUT ALLOWED IN PARENT)**

8
9 **12. (WITHDRAWN BUT ALLOWED IN PARENT)**

10
11 **13. (WITHDRAWN BUT ALLOWED IN PARENT)**

12
13 **14. (WITHDRAWN BUT ALLOWED IN PARENT)**

14
15 **15. (WITHDRAWN BUT ALLOWED IN PARENT)**

16
17 **16. (WITHDRAWN BUT ALLOWED IN PARENT)**

18
19 **17. (PREVIOUSLY AMENDED)** An audio watermark detection
20 system comprising:

21 a pattern generator configured to generate both a strong watermark and a
22 weak watermark; and

23 a watermark detector configured to detect whether a watermark is present in
24 a portion of the watermarked audio signal and, if a watermark is detected, further

1 configured to determine whether that watermark is either a strong or a weak
2 watermark.

3

4 **18. (WITHDRAWN BUT ALLOWED IN PARENT)**

5

6 **19. (WITHDRAWN BUT ALLOWED IN PARENT)**

7

8 **20. (WITHDRAWN BUT ALLOWED IN PARENT)**

9

10 **21. (ORIGINAL)** An operating system comprising an audio
11 watermark detection system as recited in claim 17.

12

13 **22. (PREVIOUSLY AMENDED)** An audio watermarking architecture,
14 comprising:

15 a watermark encoding system configured to selectively insert either a
16 strong watermark or a weak watermark into segments of an audio signal, so that
17 resulting segments have either the strong or the weak watermark inserted therein,
18 but not both; and

19 a watermark detecting system configured to detect a presence of a
20 watermark in the segments of the audio signal and, if a watermark is present,
21 further configured to determine whether the present watermark is either the strong
22 watermark or the weak watermark.

1 **23. (ORIGINAL)** An audio watermarking architecture as recited
2 in claim 22, wherein the watermark encoding system resides at a content producer
3 to watermark original audio content and the watermark detecting system resides at
4 one or more clients to detect the watermarks and play the original audio content.

5

6 **24. (WITHDRAWN BUT ALLOWED IN PARENT)**

7

8 **25. (WITHDRAWN BUT ALLOWED IN PARENT)**

9

10 **26. (PREVIOUSLY AMENDED)** A method for watermarking an
11 audio signal, comprising:

12 watermarking a first portion of the audio signal with a strong watermark;
13 and

14 watermarking a second portion of the audio signal with a weak watermark,
15 wherein the first and second portions are separate.

16

17 **27. (WITHDRAWN BUT ALLOWED IN PARENT)**

18

19 **28. (WITHDRAWN BUT ALLOWED IN PARENT)**

20

21 **29. (WITHDRAWN BUT ALLOWED IN PARENT)**

22

23 **30. (WITHDRAWN BUT ALLOWED IN PARENT)**

1 **31. (WITHDRAWN BUT ALLOWED IN PARENT)**

2

3 **32. (WITHDRAWN BUT ALLOWED IN PARENT)**

4

5 **33. (PREVIOUSLY AMENDED)** A method comprising:

6 selectively encoding portions of an audio signal with either a strong

7 watermark or a weak watermark, so that resulting portions have either the strong

8 or the weak watermark encoded therein, but not both; and

9 detecting a presence of a watermark in the portions of the audio signal;

10 if a watermark is present, determining whether the present watermark is

11 either the strong watermark or the weak watermark.

12

13 **34. (PREVIOUSLY AMENDED)** A computer readable medium

14 having computer executable instructions for:

15 watermarking a first portion of an audio signal with a strong watermark;

16 and

17 watermarking a second portion of the audio signal with a weak watermark,

18 wherein the first and second portions are separate.

19

20 **35. (WITHDRAWN BUT ALLOWED IN PARENT)**

21

22 **36. (WITHDRAWN BUT ALLOWED IN PARENT)**

23

24

25

1 **37. (PREVIOUSLY AMENDED)** An audio watermarking system
2 comprising

3 a pattern generator configured to generate both a strong watermark and a
4 weak watermark; and

5 a watermark insertion unit configured to insert the strong watermark into
6 one or more first segments of the audio signal and to insert the weak watermark
7 into one or more second segments of the audio signal, wherein the first and second
8 segments are separate.

9
10 **38. (ORIGINAL)** An audio watermarking system as recited in
11 claim 37, wherein the watermark insertion unit selectively chooses segments for
12 insertion of the watermarks according to an audible measure of the segments.

13
14 **39. (ORIGINAL)** An audio watermarking system as recited in
15 claim 37, wherein the watermark insertion unit selectively chooses segments for
16 insertion of the strong watermark according to an audible measure of the
17 segments.

18
19 **40. (WITHDRAWN BUT ALLOWED IN PARENT)**

20
21 **41. (WITHDRAWN BUT ALLOWED IN PARENT)**

22
23 **42. (ORIGINAL)** An operating system comprising an audio
24 watermarking system as recited in claim 37.



421 West Riverside, Suite 500
Spokane, WA 99201
P: 509.324.9256
F: 509.323.8979
www.leehayes.com

1 **43. (WITHDRAWN BUT ALLOWED IN PARENT)**
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25